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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/836,292	04/18/2001	Tomoyuki Okada	2001-0453	6901

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WENDEROTH, LIND & PONACK, L.L.P.
2033 K STREET N. W.
SUITE 800
WASHINGTON, DC 20006-1021

EXAMINER

BOCCIO, VINCENT F

ART UNIT PAPER NUMBER

2616

DATE MAILED: 10/06/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/836,292

Applicant(s)

OKADA ET AL.

Examiner

Vincent F. Boccio

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-3, 6-17 and 19, 21-22 is/are rejected.
- 7) ☒ Claim(s) 4, 5, 18 and 20 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 4/8/01, 7/18/01, 9/24/02
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.

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DETAILED ACTION

The Group and/or Art Unit location of your application in the PTO has changed. To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Group Art Unit 2616.

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

2. Claims 7-8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 7-8 are deemed indefinite in view of claim 6, which recites, the first object being an object and second object being an object, wherein claim 1 also recites an object in addition to claim 7-8 further reciting the object, it becomes unclear to which object limitation is being narrowed.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any

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evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

4. Claims 1-3, 6-8, 13-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fujinami et al. (US 5,881,203) in view of Tanoue et al. (US 6,298,033).

Regarding claims 1-3, Fujinami, disclose and meets the limitations associated with a medium, recording and reproduction method and apparatus, wherein the medium comprises:

- a least an object (recording);
- having multiplexed video and audio encoded (Fig. 1, "medium 10, multiplexer 6, audio and video encoding 1, 2 A);
- management information includes map information for the at least one object (Fig. 1, "Map and Entry Point information", col. 8 and col. 12, stored to DSM 10, wherein the try point identify the leading position of intra-coded pictures by the Video entry point detection circuit 31 to storage 33 to DSM 10).

Further regarding claims 1-3, Fujinami fails to disclose blocks being fixed length being a unit of one ECC block.

Tanoue, discloses recording in fixed length ECC blocks, digital information, on an optical disk, wherein the ECC blocks provide for detection and correction, to prevent failures in the data reproduction due to defect of an optical disk 40, as taught by Tanoue.

Therefore, it would have been obvious to one skilled in the art at the time of the invention to modify Fujinami by incorporating fixed length ECC blocks, as taught by Tanoue thereby to compensate for optical disk defects, as taught by Tanoue.

Regarding claim 6, the combination as applied reads on having first and second objects, wherein the entry points generated and stored to the disk reads on management information, wherein the corresponding data on the disk reads on data, not managed by management information, because it is not

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the management information entry point data, but only corresponding or related thereto.

Regarding claim 7, the combination as applied fails to disclose having a validity flag indicating if map information for an object is valid.

The examiner takes official notice that validity information for a file indicating either corrupted or good status, is deemed to be a known concept, therefore, it would have been obvious to one skilled in the art at the time of the invention to modify the combination by incorporating a validity flag or data to indicate either good or corrupted data.

Regarding claim 8, the combination fails to disclose wherein the management information is indicated by a flag or data indicating that the recorded data is self encoded.

The examiner takes official notice that identifying self encoding, for example vs. pre-encoded information of a recording, is deemed known and therefore, it would have been obvious to one skilled in the art at the time of the invention to modify the combination by incorporating a flag to indicate self encoding, as management information, indicating origin or source identification.

Claim 13 is deemed analyzed and discussed with respect to the claims above, Fig. 1 of Fujinami, shows an interface to encoding elements, generating, detecting I pictures and storing to DSM.

Claim 14 is analyzed and discussed with respect to the claims above, but, the action fails address, detecting whether the input is a first or second object, is deemed met, wherein the first and second objects are the map entry points with respect to the content with associated entry point data.

Claim 15-16 are analyzed and discussed with respect to the claims above, but the combination fails to address or disclose wherein the user can specify a playback time.

The examiner takes official notice that it is well known to provide a lookup table correlating playback time to address, thereby allowing the user to select a time, wherein the table converts to the corresponding address, thereby allowing searching by time parameters correlated to address.

Therefore, it would have been obvious to one skilled in the art at the time of the invention to modify the combination by incorporating a table allowing a user to enter a time wherein

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the table allows for conversion to address, as is known in the art.

5. Claims 10-12, 17, 19, 21-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Fujinami et al. (US 5,881,203) and Tanoue et al. (US 6,298,033), as applied and further in view of Hirabayashi et al. (US 6,308,003).

Claim 10, is deemed analyzed and discussed with respect to the claims above, but, comprises an additional limitation, wherein the combination fails to disclose wherein the entry points for the I frames, or map data includes time or playback time.

Hirabayashi teaches using various a map tables, one in Fig. 2, correlates time code and sector address for accessing I frames for trick play operations (Figs. 9, 10 and 11), as taught by Hirabayashi.

Therefore, it would have been obvious to one skilled in the art at the time of the invention to modify the combination by incorporating the teaching of recording time data to a map, as taught by Hirabayashi, to perform trick modes of reproduction, as would have been to those skilled in the art.

Claims 11, 12, 17, 19 are deemed analyzed and discussed with respect to the claims above.

Claims 21-22 are deemed analyzed and discussed with respect to the claims above, being the apparatus and method for reproducing from the medium, as established above.

6. Claims 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Fujinami et al. (US 5,881,203) and Tanoue et al. (US 6,298,033), as applied and further in view of Lenihan et al. (US 6,169,843).

Regarding claim 9, the combination as applied reads on objects being MPEG encoded and wherein the Intra-picture data is an I-picture, but, fails to disclose that the at least one object is an MPEG transport stream.

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Lenihan teaches the concept of recording by converting a program stream into a transport stream (Fig. 2, by one way to describe the process is to encapsulate the program stream after encoding and convert the program stream format), wherein the TS, lends itself to error prone environments, as is well known.

Therefore, it would have been obvious to one skilled in the art at the time of the invention to modify the combination by incorporating the teaching of recording in the transport stream format, as taught by Lenihan.

Allowable Subject Matter

1. Claims 4-5, 18, 20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Contact Fax Information

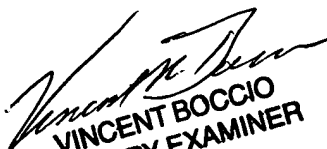
Any response to this action should be faxed to:

(571) 273-8300, for communication as intended for entry,
this Central Fax Number as of 7/15/05

Contact Information

Any inquiry concerning this communication or earlier communications should be directed to the examiner of record, Monday-Tuesday & Thursday-Friday, 8:00 AM to 5:00 PM Vincent F. Boccio (571) 272-7373.

Primary Examiner, Boccio, Vincent
10/3/05


VINCENT BOCCIO
PRIMARY EXAMINER